

FIG. 1
prior art

FIG. 2
prior art

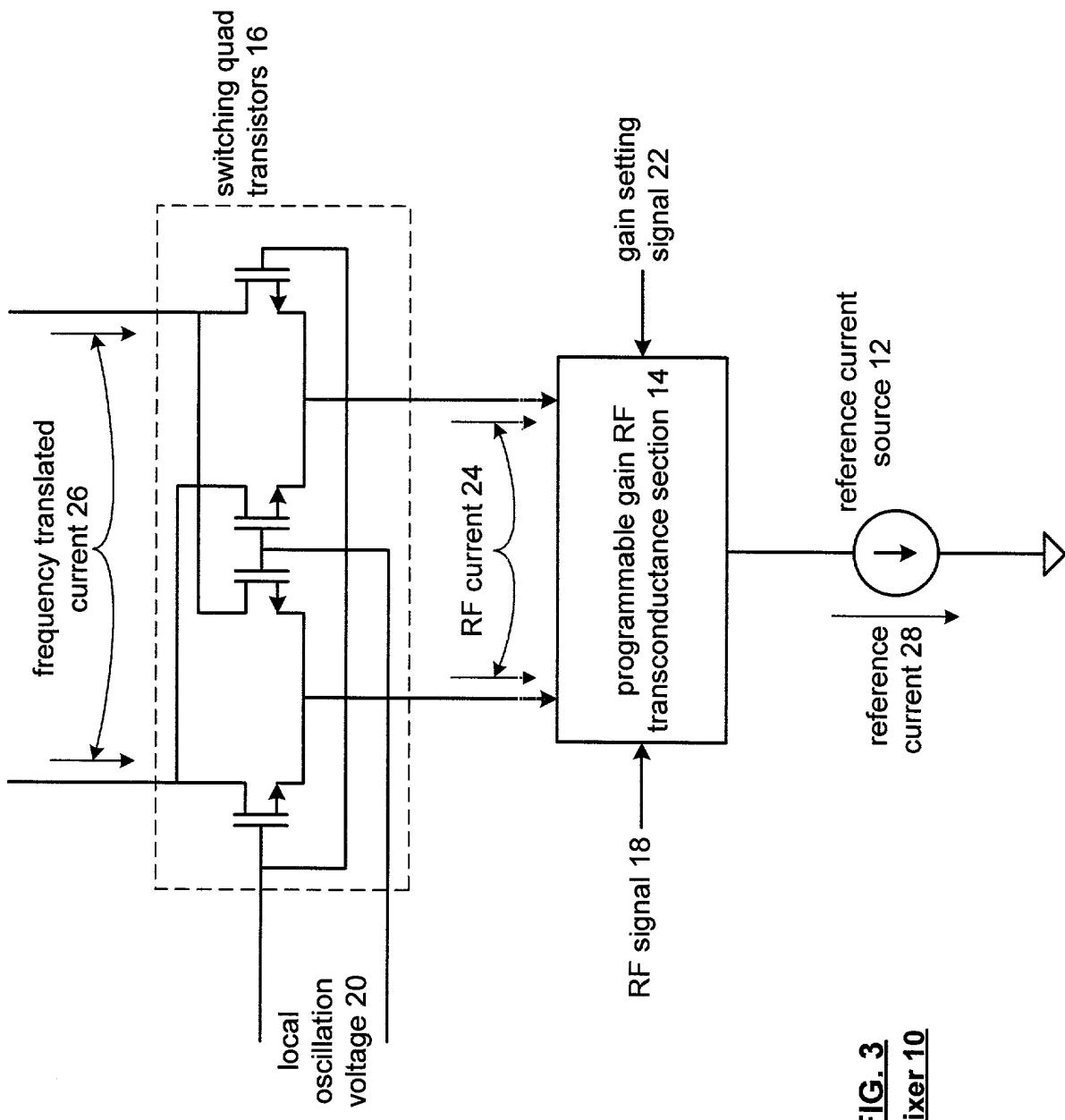


FIG. 3
mixer 10

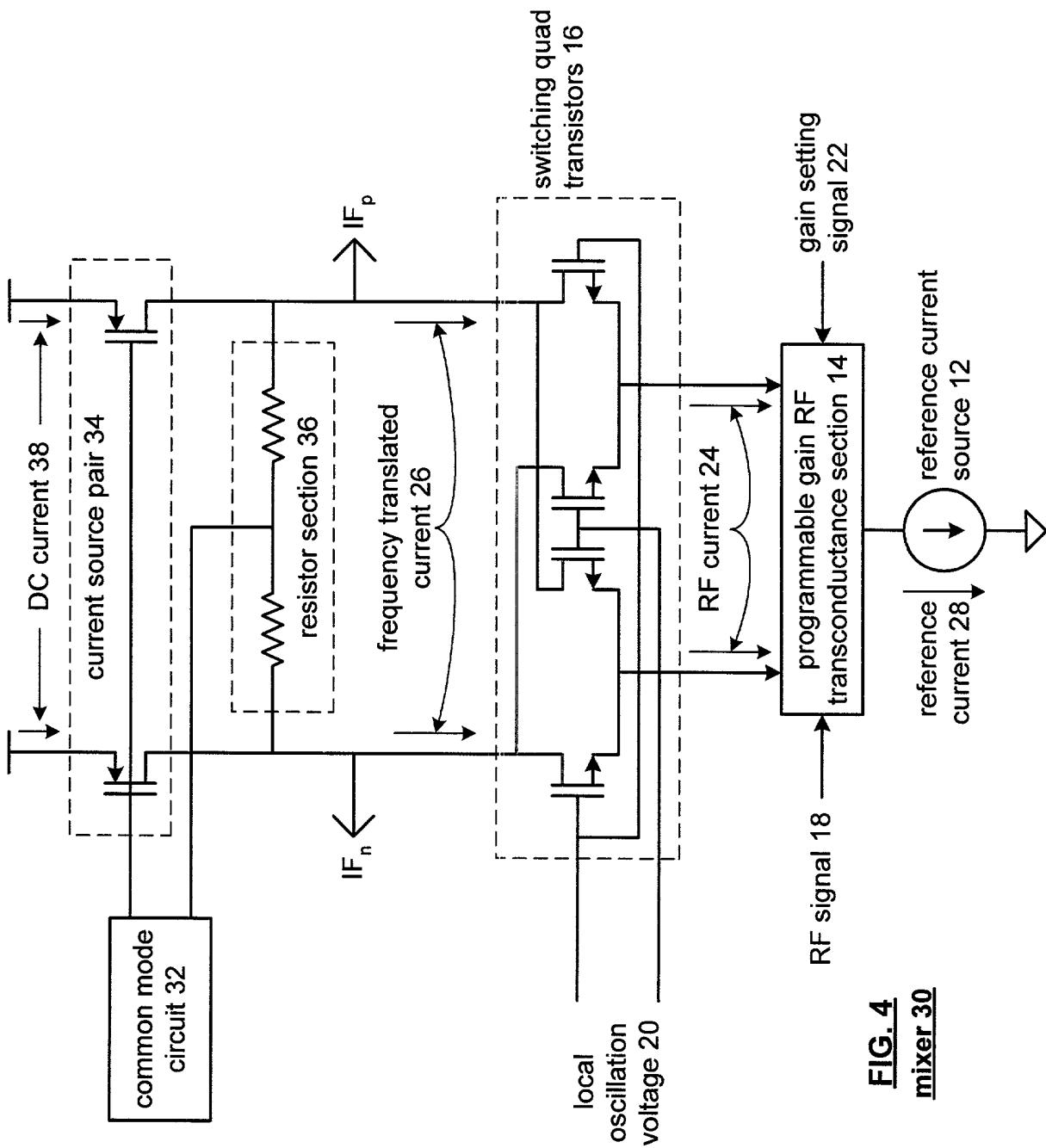


FIG. 4
mixer 30

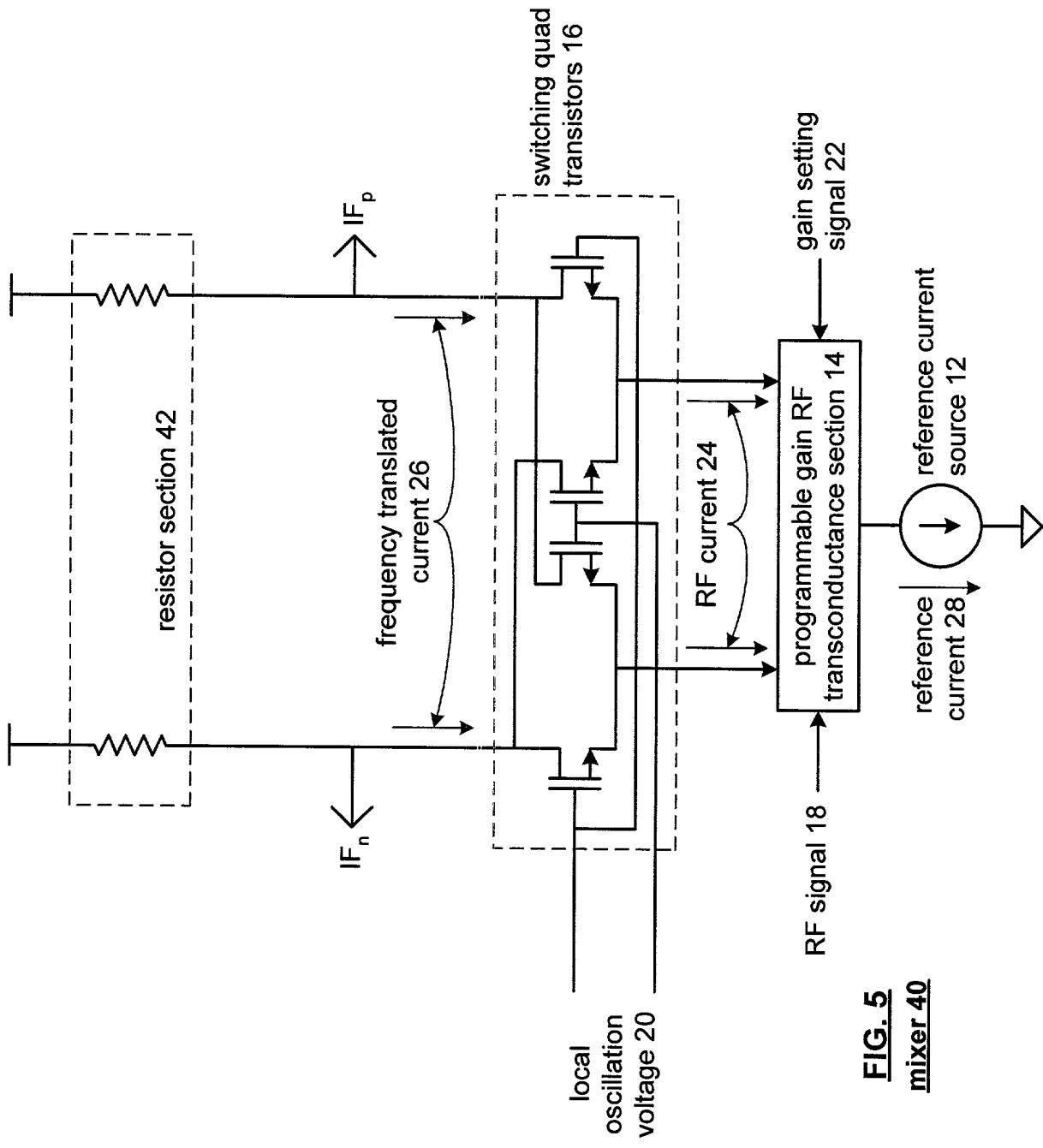


FIG. 5
mixer 40

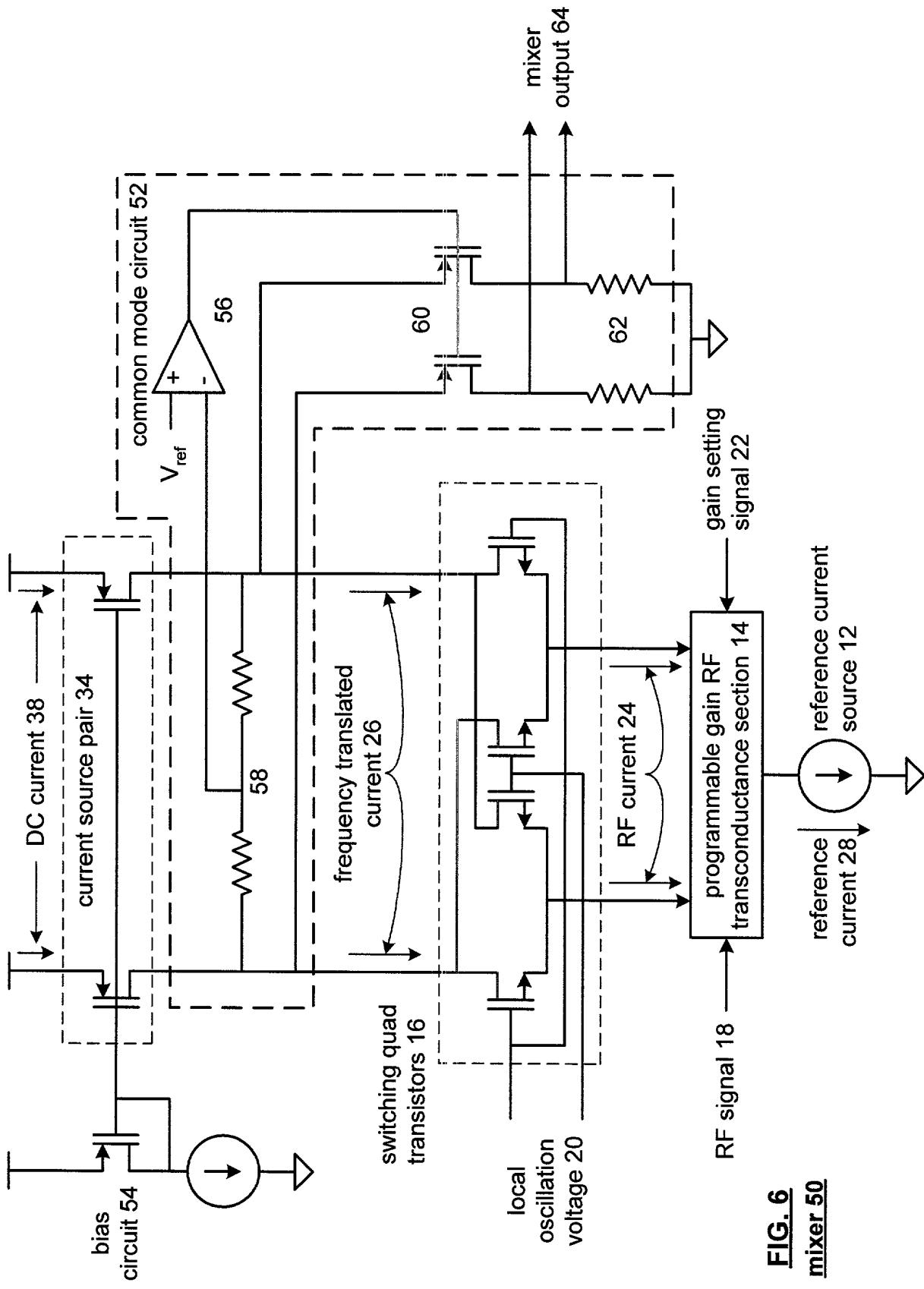


FIG. 6
mixer 50

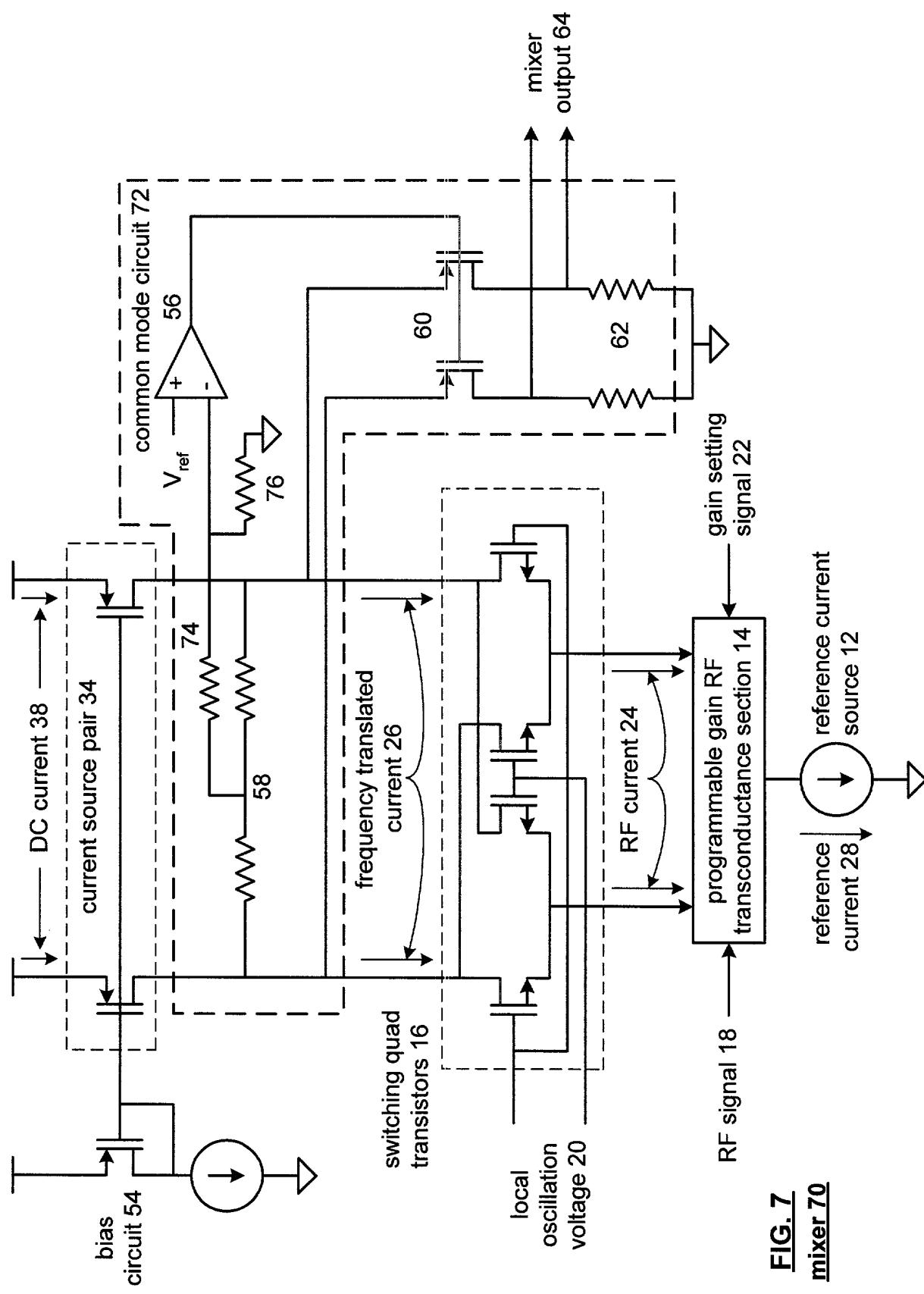


FIG. 7
mixer 70

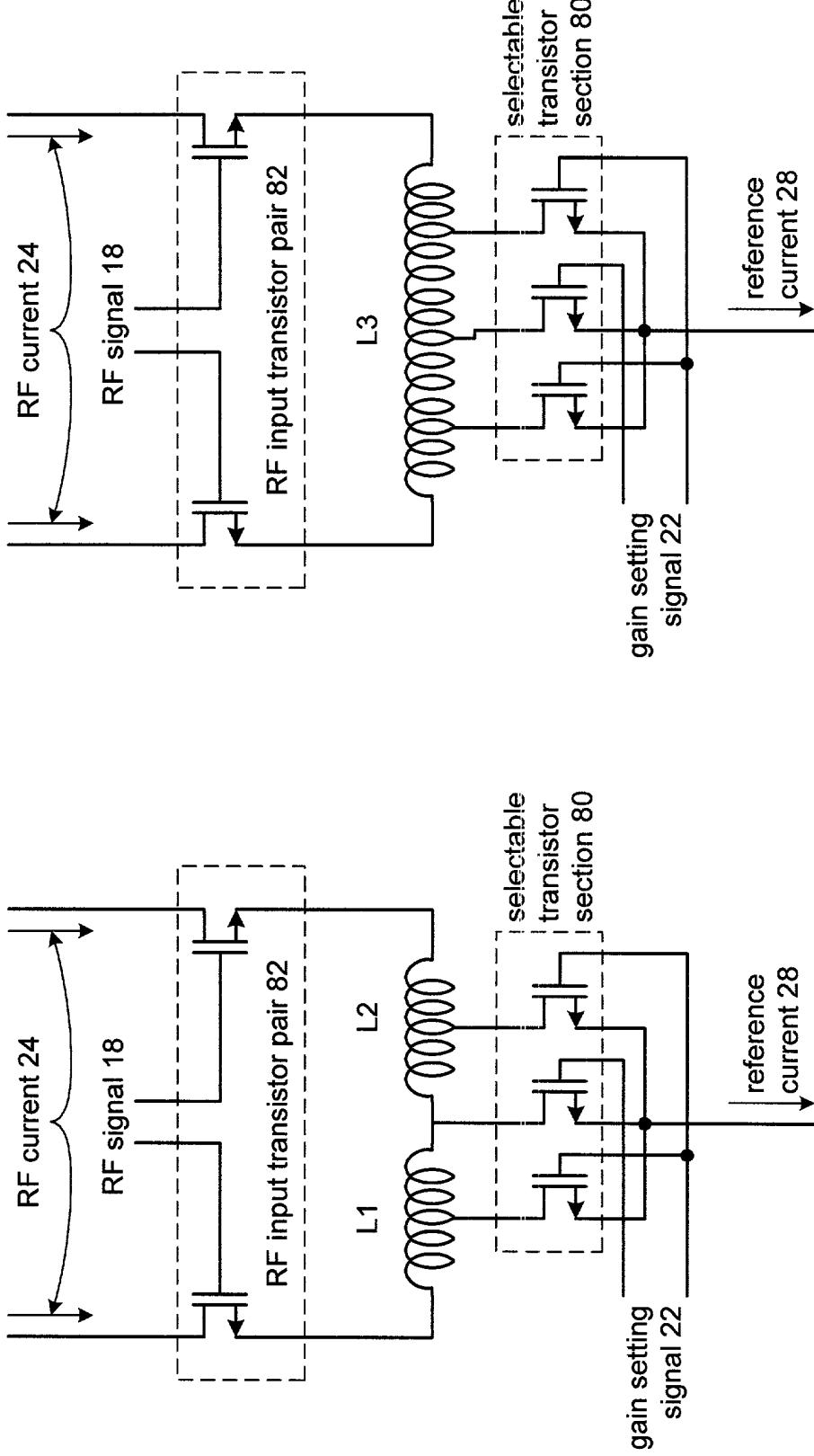


FIG. 8
programmable gain RF
transconductance section 14

FIG. 9
programmable gain RF
transconductance section 14

frequency translated current 26
switching quad native transistors 92
local oscillation voltage 20

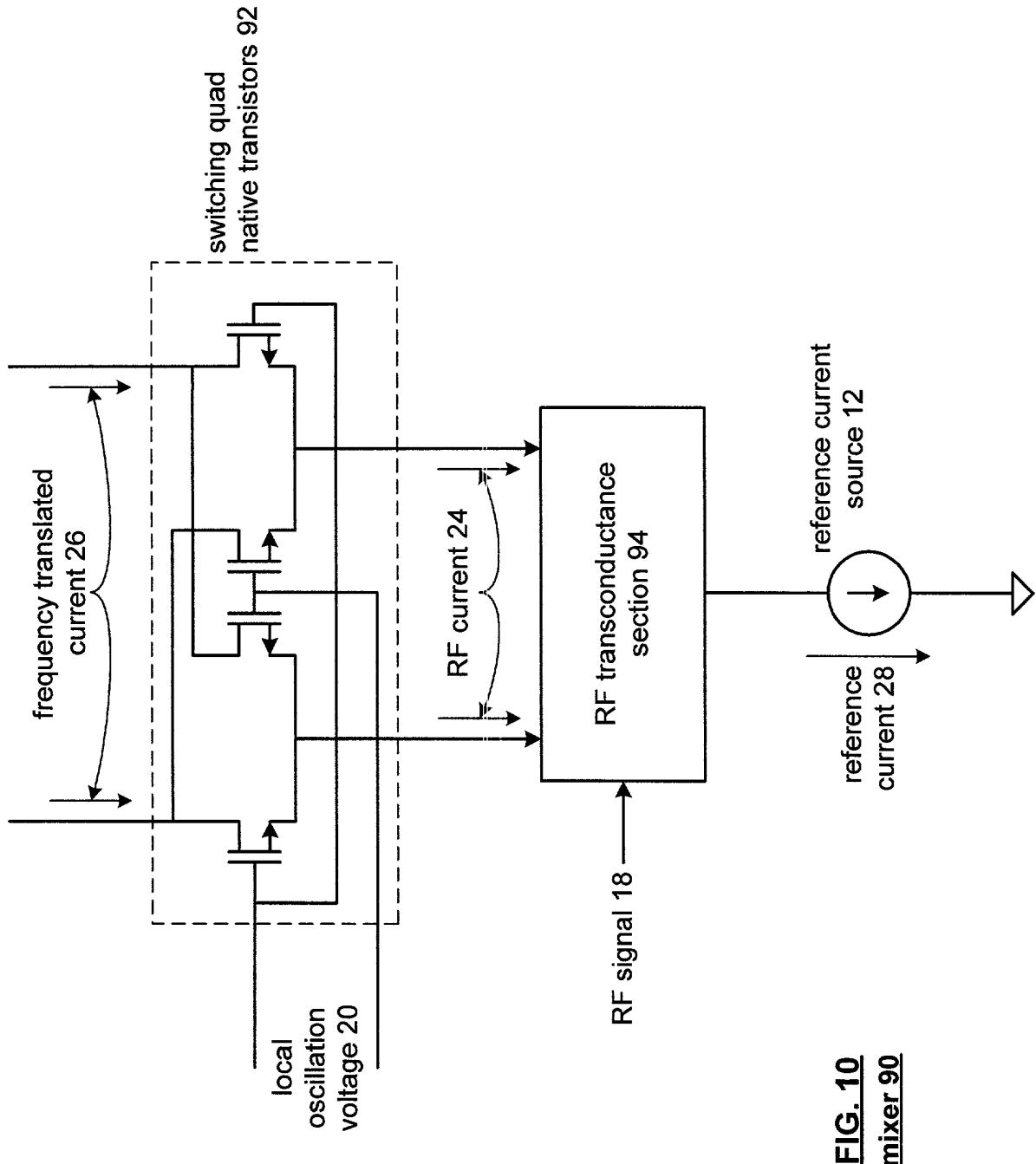


FIG. 10
mixer 90

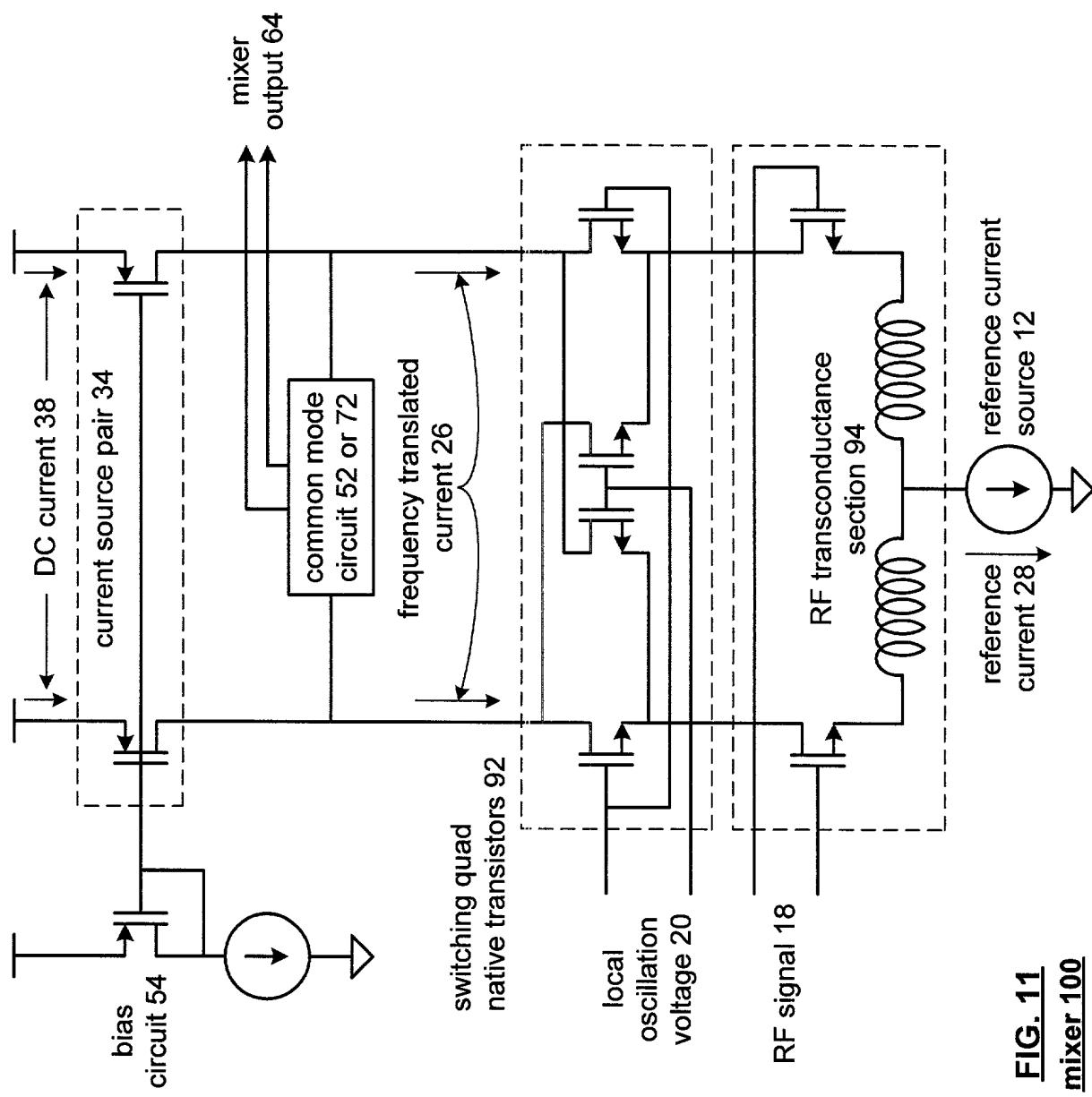


FIG. 11
mixer 100

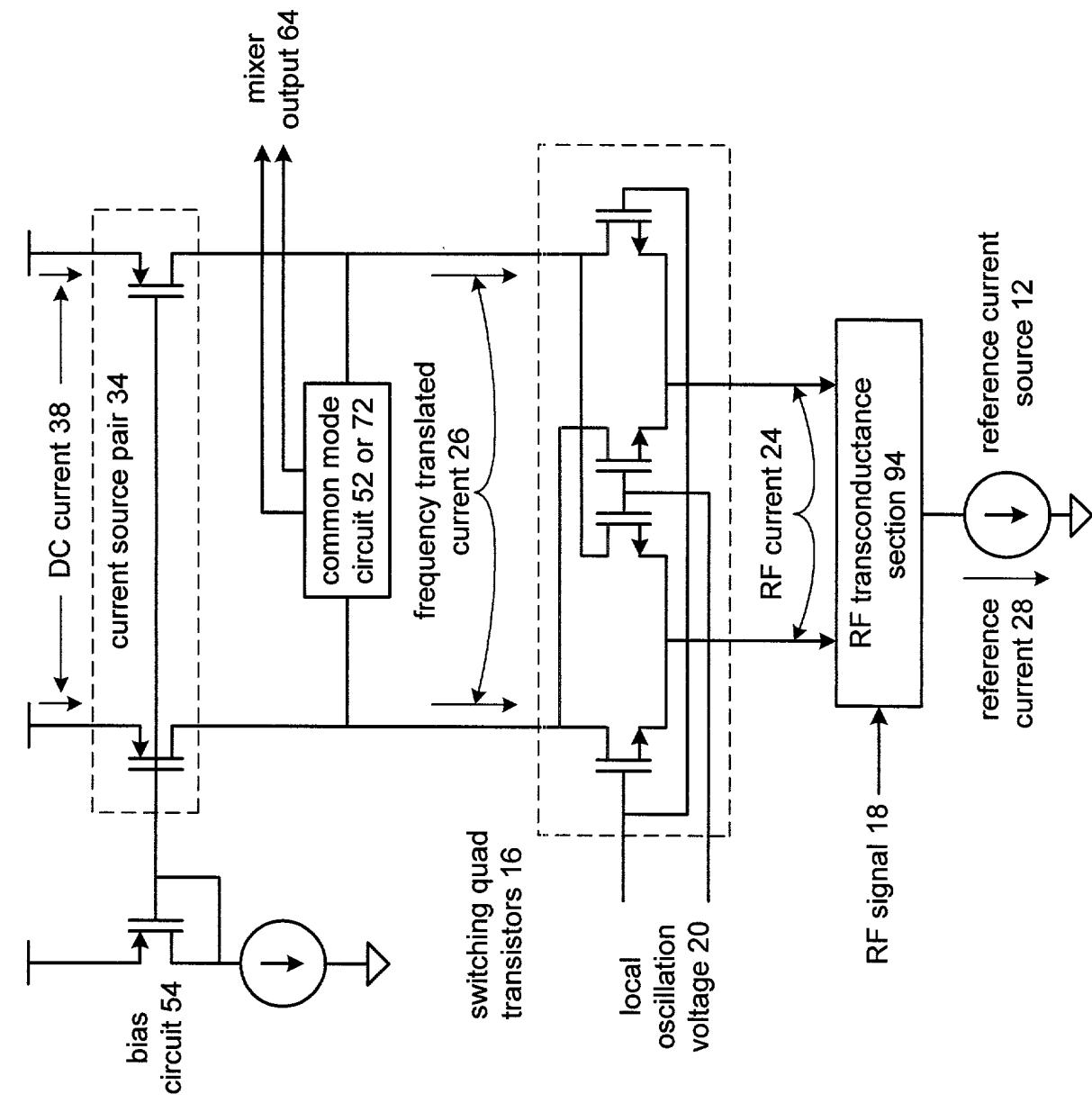


FIG. 12
mixer 110

124 122 20 126 130 138 140 132

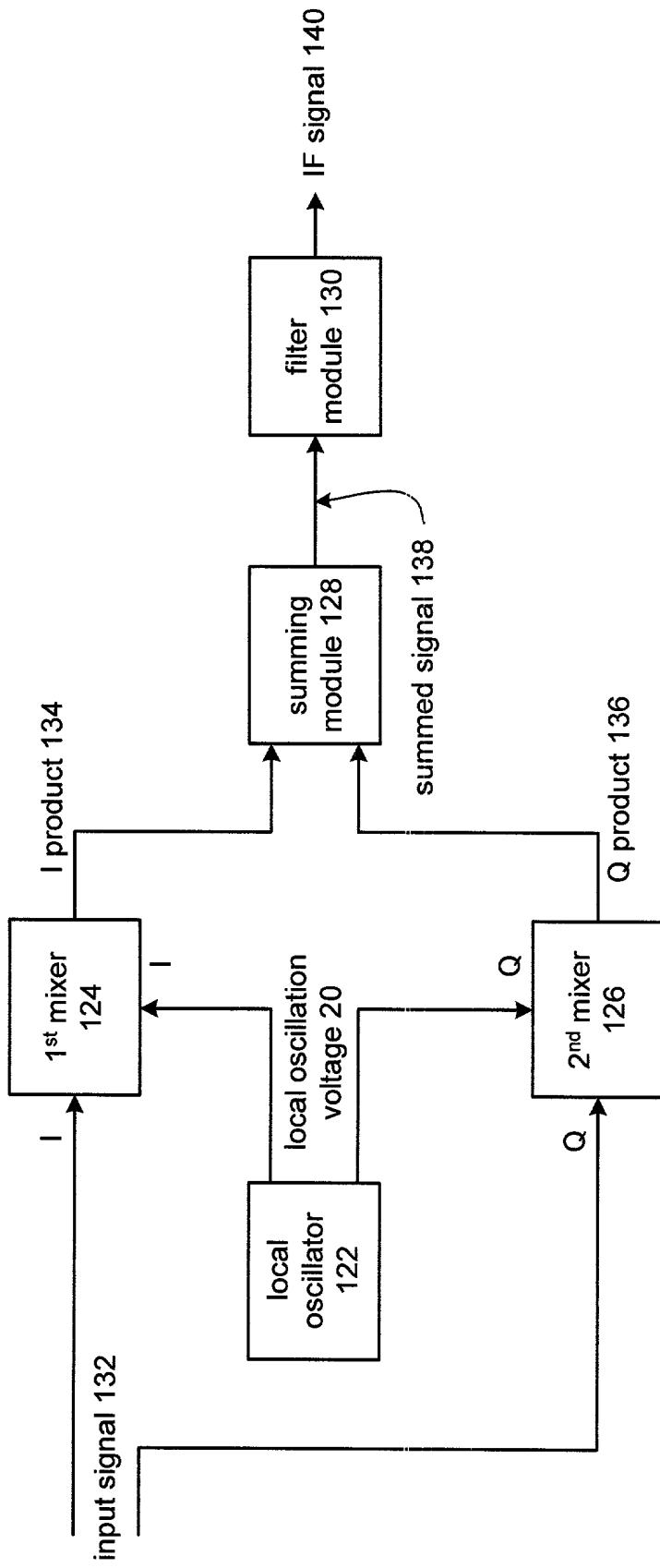


FIG. 13
IF module 120